

| Ref # | Hits    | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|---------|---|---|------------------|---------|------------------|
| S1    | 163     | (380/203).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2004/03/15 13:24 |
| S2    | 674     | digital with content with protection  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/10/14 10:20 |
| S3    | 113143  | scramble encrypt cipher invert  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/10/14 15:52 |
| S4    | 317     | (digital with content with protection) and (scramble encrypt cipher invert)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/10/14 15:27 |
| S5    | 2863916 | hard adj disk HD drive disc   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/10/14 12:18 |
| S6    | 63      | ((digital with content with protection) and (scramble encrypt cipher invert)) and (hard adj disk HD drive disc)   | USPAT   | OR               | ON      | 2003/10/14 11:55 |
| S7    | 54335   | stb "set top box" "set-top box") (hard adj disk hard adj drive  | USPAT   | OR               | ON      | 2003/10/14 12:29 |
| S8    | 400     | (stb "set top box" "set-top box") (hard adj disk hard adj drive) same ((scramble invert cipher encipher encrypt) (descramble decipher decrypt))   | USPAT   | OR               | ON      | 2003/10/14 12:30 |
| S9    | 140     | ((stb "set top box" "set-top box") (hard adj disk hard adj drive) same ((scramble invert cipher encipher encrypt) (descramble decipher decrypt))) same ((store save hold contain) (receive retrieve get)) | USPAT   | OR               | ON      | 2003/10/14 14:25 |
| S10   | 247     | ((scramble invert encipher encrypt alter) with hard adj (disk drive)) and digital   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/10/14 15:54 |
| S11   | 240     | ((scramble invert encipher encrypt alter) with hard adj (disk drive)) and (store save hold) and (receive retrieve get)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/10/14 15:54 |
| S12   | 355     | (scramble invert encipher encrypt alter) with hard adj (disk drive)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/10/15 09:37 |
| S13   | 63      | (digital and video and record\$3 and (secur\$3 protect\$3 copyright)).ti.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/10/15 09:38 |
| S14   | 1       | ("5796828").PN.   | USPAT;<br>USOCR   | OR               | OFF     | 2003/10/15 10:42 |
| S15   | 457     | serial adj number and serial adj bus  | USPAT   | OR               | ON      | 2003/10/15 13:31 |
| S16   | 6       | serial adj number and serial adj bus and fixed adj data   | USPAT   | OR               | ON      | 2003/10/15 13:32 |

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|-----|--------|--|-----------------|----|-----|------------------|
| S17 | 1034   | (serial adj number SN) and (hardware platform) and (random adj number RN)  | USPAT           | OR | ON  | 2004/02/05 10:10 |
| S18 | 24     | (serial adj number SN) same (hardware platform) same (random adj number RN)  | USPAT           | OR | ON  | 2004/02/05 10:45 |
| S19 | 1020   | (scrambl\$ invert\$ cipher\$ encrypt\$) with (serial adj number SN)  | USPAT           | OR | ON  | 2004/02/05 10:46 |
| S20 | 23     | (scrambl\$ invert\$ cipher\$ encrypt\$) with (serial adj number SN) with (random adj number RN)  | USPAT           | OR | ON  | 2004/02/05 10:51 |
| S21 | 1020   | "Globally Unique Identifier" GUID "Universally Unique Identifier" UUID   | USPAT           | OR | ON  | 2004/02/05 10:51 |
| S22 | 1      | ((scrambl\$ invert\$ cipher\$ encrypt\$) with (serial adj number SN)) and ("Globally Unique Identifier" GUID "Universally Unique Identifier" UUID) | USPAT           | OR | ON  | 2004/02/05 10:55 |
| S23 | 158    | second adj scrambl\$   | USPAT           | OR | ON  | 2004/02/05 13:09 |
| S24 | 12     | ((380/203).CCLS.) and multiplex\$ and selectiv\$   | USPAT           | OR | ON  | 2004/03/15 13:39 |
| S25 | 36     | (hughes and electronic).as. and secur\$ and select\$ and (encrypt\$ cipher\$ scrambl\$)  | USPAT           | OR | ON  | 2004/04/01 09:33 |
| S26 | 2830   | secur\$ and select\$ with (encrypt\$ cipher\$ scrambl\$)   | USPAT           | OR | ON  | 2004/04/01 10:48 |
| S27 | 5050   | secur\$ and select\$ with (multiplex\$)  | USPAT           | OR | ON  | 2004/04/01 10:48 |
| S28 | 304    | secur\$ and select\$ with ((encrypt\$ cipher\$ scrambl\$) and multiplex\$)   | USPAT           | OR | ON  | 2004/04/01 10:48 |
| S29 | 78     | secur\$ and select\$ with (encrypt\$ cipher\$ scrambl\$) with multiplex\$  | USPAT           | OR | ON  | 2004/04/01 10:49 |
| S30 | 1      | ("5936660").PN.  | USPAT;<br>USOCR | OR | OFF | 2004/09/30 14:18 |
| S31 | 1      | ("5936660").PN.  | USPAT           | OR | OFF | 2004/11/10 13:36 |
| S32 | 4286   | (invert scramble) with bit   | USPAT           | OR | ON  | 2004/11/10 14:22 |
| S33 | 2619   | (invert scramble) near3 bit  | USPAT           | OR | ON  | 2004/11/10 14:23 |
| S34 | 378451 | (serial adj number SN) (hardware platform) (random adj number RN)  | USPAT           | OR | ON  | 2004/11/10 14:23 |
| S35 | 13074  | ((serial adj number SN) (hardware platform) (random adj number RN)) same unique  | USPAT           | OR | ON  | 2004/11/10 14:23 |
| S36 | 2619   | (invert scramble) near3 bit  | USPAT           | OR | ON  | 2004/11/10 14:24 |
| S37 | 13074  | ((serial adj number SN) (hardware platform) (random adj number RN)) same unique  | USPAT           | OR | ON  | 2004/11/10 15:07 |
| S38 | 96     | S36 and S37  | USPAT           | OR | ON  | 2004/11/10 14:35 |
| S39 | 2      | "11290665"   | JPO             | OR | ON  | 2004/11/10 14:40 |
| S40 | 3      | "756279" "802527" "802535"   | EPO             | OR | ON  | 2004/11/10 14:45 |
| S41 | 1      | "09171619"   | JPO             | OR | ON  | 2004/11/10 14:46 |
| S42 | 365564 | (serial adj number SN) (hardware platform)   | USPAT           | OR | ON  | 2004/11/10 15:08 |
| S43 | 604    | ((serial adj number SN) (hardware platform)) same (invert scramble)  | USPAT           | OR | ON  | 2004/11/10 15:09 |
| S44 | 523    | ((serial adj number SN) (hardware platform)) same (invert scramble) and @ad<"20000720"   | USPAT           | OR | ON  | 2004/11/10 15:09 |
| S45 | 246    | ((serial adj number SN) (hardware platform)) same (invert scramble) same (data bit) and @ad<"20000720"   | USPAT           | OR | ON  | 2004/11/10 15:10 |
| S46 | 158    | ((serial adj number SN) (hardware platform)) same (invert scramble) with (data bit) and @ad<"20000720"   | USPAT           | OR | ON  | 2004/11/10 15:10 |
| S47 | 88     | ((serial adj number SN) (hardware platform)) same (invert scramble) near2 (data bit) and @ad<"20000720"  | USPAT           | OR | ON  | 2004/11/10 15:11 |
| S48 | 12     | ((serial adj number SN) (hardware platform)) with (invert scramble) near2 (data bit) and @ad<"20000720"  | USPAT           | OR | ON  | 2004/11/10 15:36 |
| S49 | 2341   | (cheap inexpensive) same (encrypt\$ scrambl\$ inver\$)   | USPAT           | OR | ON  | 2004/11/10 15:37 |
| S50 | 694    | (cheap inexpensive) with (encrypt\$ scrambl\$ inver\$)   | USPAT           | OR | ON  | 2004/11/10 15:38 |

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|-----|--------|---|------------------------------|----|----|------------------|
| S51 | 637    | (cheap inexpensive) with (encrypt\$ scrambl\$ inver\$) and @ad<"20000720"                 | USPAT                        | OR | ON | 2004/11/10 15:39 |
| S52 | 77     | (cheap inexpensive) with (encrypt\$ scrambl\$ inver\$) same (data bit) and @ad<"20000720" | USPAT                        | OR | ON | 2004/11/10 15:40 |
| S53 | 30     | serial adj number near3 (scrambl\$ inver\$)   | USPAT                        | OR | ON | 2004/11/12 10:17 |
| S54 | 22568  | line near3 inver\$  | USPAT -                      | OR | ON | 2004/11/12 11:33 |
| S55 | 471    | line near3 inver\$ with multiplex\$   | USPAT                        | OR | ON | 2004/11/12 11:05 |
| S56 | 431    | line near3 inver\$ with multiplex\$ and @ad<"20000720"                                    | USPAT                        | OR | ON | 2004/11/12 11:18 |
| S57 | 225    | line near3 inver\$ with multiplex\$ and prevent and @ad<"20000720"                        | USPAT                        | OR | ON | 2004/11/12 11:20 |
| S58 | 12     | line near3 inver\$ and prevent near copy\$  | USPAT                        | OR | ON | 2004/11/12 11:33 |
| S59 | 40     | line near3 inver\$ and prevent near3 copy\$   | USPAT                        | OR | ON | 2004/11/12 11:33 |
| S60 | 112622 | multiplexer mux   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/09 10:38 |
| S61 | 55885  | S60 with (bit data)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/09 10:38 |
| S62 | 627    | S61 with (alter\$3 scrambl\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/09 11:24 |
| S63 | 393    | S62 and @ad<"20000720"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/09 11:24 |
| S64 | 20     | (michael and ficco).in.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/09 11:20 |
| S65 | 69     | S62 same (storage store storing save saved saving)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/09 11:24 |
| S66 | 45     | S65 and @ad<"20000720"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/09 14:55 |
| S67 | 4      | (multiple plurality) adj (multiplexer mux) near3 (scrambl\$3 encrypt\$3)                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/09 15:14 |
| S68 | 14     | (multiple plurality) adj (multiplexer mux) same (scrambl\$3 encrypt\$3)                   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/09 15:14 |
| S69 | 10     | S68 not S67   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/09 17:03 |
| S70 | 22428  | (dvr "digital video record\$" STB "set-top box" "set top box")                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/13 11:15 |
| S71 | 5584   | S70 and (scrambl\$3 alter\$3)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 09:24 |
| S72 | 22429  | (dvr "digital video record\$" STB "set-top box" "set top box")                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 09:24 |
| S73 | 5585   | S72 and (scrambl\$3 alter\$3)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 09:55 |
| S74 | 1106   | S73 and (mux multiplexer)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 09:24 |

|     |         |   |                              |    |    |                  |
|-----|---------|---|------------------------------|----|----|------------------|
| S75 | 150     | S72 and (scrambl\$3 alter\$3) same (mux multiplexer)                        | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 11:02 |
| S76 | 66      | S75 and @ad<"20000720"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 11:03 |
| S77 | 36      | S72 and alter\$3 same (mux multiplexer)                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 11:03 |
| S78 | 21      | S77 and @ad<"20000720"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 11:18 |
| S79 | 434     | (mux multiplex\$3) with bit with inverse                                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/13 13:46 |
| S80 | 252     | S79 and @ad<"20000720"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 16:59 |
| S81 | 6       | S80 and S72   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 11:18 |
| S82 | 2       | (plurality multiple) adj2 (mux multiplex\$3) with bit with inverse          | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 15:20 |
| S83 | 7836    | (plurality multiple) adj2 (mux multiplex\$3)                                | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 16:50 |
| S84 | 291958  | inverse complement  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 16:51 |
| S85 | 1638483 | bit data  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 16:57 |
| S86 | 66060   | S84 same S85  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 16:58 |
| S87 | 108     | S86 same S83  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/12 16:59 |
| S88 | 64      | S87 and @ad<"20000720"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/13 11:14 |
| S89 | 10      | ("3958077"   "4531024"   "4776013"   "4821321").PN. OR<br>("5177786").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/13 10:49 |
| S90 | 42164   | "exclusive or" "XOR"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/13 13:13 |
| S91 | 2259    | S90 with (scrambl\$ alter\$3 cipher\$ encrypt\$)                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/13 11:27 |
| S92 | 1112    | S91 and @ad<"20000720"  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/13 11:31 |
| S93 | 21      | (dvr "digital video record\$" STB "set-top box" "set top box") and<br>S92   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/13 13:48 |
| S94 | 1259    | (multiple plurality) adj ("exclusive or" "XOR")                             | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2005/09/13 11:30 |

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|----------|------|--|------------------------------|----|-----|------------------|
| S95      | 17   | S94 with (scrambl\$ alter\$3 cipher\$ encrypt\$)                         | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/09/13 11:31 |
| S96      | 7    | S95 and @ad<"20000720"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/09/13 13:15 |
| S97      | 142  | selective adj (encrypt\$ scrambl\$ cipher\$)                             | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/09/13 13:14 |
| S98      | 45   | S97 and @ad<"20000720"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/09/13 13:46 |
| S99      | 5762 | (mux multiplex\$3) with inverter   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/09/13 13:46 |
| S10<br>0 | 3912 | S99 and @ad<"20000720"   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/09/13 13:46 |
| S10<br>1 | 68   | S100 and (dvr "digital video record\$ " STB "set-top box" "set top box") | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2005/09/13 13:51 |
| S10<br>2 | 1    | ("6822976").PN.  | USPAT                        | OR | OFF | 2005/09/13 13:59 |
| S10<br>3 | 1    | ("5734927").PN.  | USPAT                        | OR | OFF | 2005/09/13 14:07 |
| S10<br>4 | 1    | ("5943386").PN.  | USPAT                        | OR | OFF | 2005/09/13 14:07 |